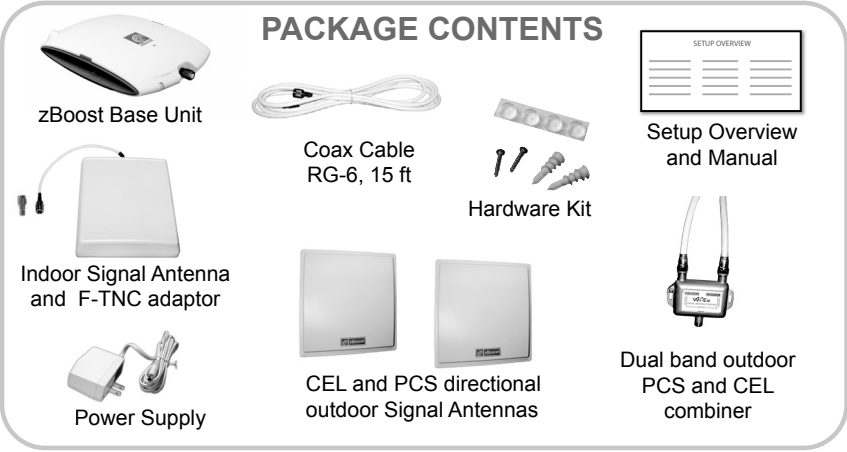




SET-UP OVERVIEW

zBoost®
YX645



INSTALLING YOUR zBOOST® SIGNAL BOOSTER

Installing the Signal Antennas

Choosing the best location for installation of the Signal Antennas provides the best performance and the largest area of improved signal. Determine the location which provides the strongest signal using the signal strength indicator on your cell phone. Find the location which provides the most bars of signal strength and locate the Signal Antenna at that location. This location will be typically found on the roof.

Warning: Avoid placing antenna near metal such as wiring, A/C ducts, truss plates, etc. When attaching the cable to the antenna, run the cable straight down from the antenna. Avoid draping the coax near the antenna.

When you have determined the location of the strongest signal, install the antennas to a mast or pole. Loosely tighten the antennas to the mast to allow the antennas to be reoriented for strongest signal.

Antenna Aiming

To get the maximum benefit, you will want to take special care to make sure you point the antenna(s) in the direction of the best signal for your wireless service provider. You may wish to use a YX699 RF signal meter to help during this process. For more information see the manual.

Running the Coaxial Cable to the Base Unit

Coaxial cable is not provided with the YX645. After installing the Signal Antennas and connecting them, run coax cable to the location in the home where you plan to install the Base Unit. The recommended maximum cable length run for RG-6 is 60' and 120' for RG-11. It is highly recommended that you refrain from securing your cable, drilling any holes, etc. until you complete and test the installation of the Base Unit.

Caution: Before drilling any holes into a wall to run your cable, make sure you know where existing electrical wiring is located. Drilling into live electrical wiring could cause an electrical shock and sever the wire.

installing the Base Unit and Indoor Antenna

The Base Unit can also be easily mounted on a wall using the included mounting bracket hardware. The Base Unit should be a minimum distance of 4-5 feet off from the floor so there is clearance for the Base Unit antenna extension.

The Indoor Signal Antenna connects to the F-TNC adaptor. Then, using the 15' RG-6 coax, connect the F-TNC adaptor to the Base Unit. It should be mounted on a wall facing the direction where increased coverage is desired.

Confirm That Your zBoost is Working Properly

Perform the following steps to confirm that the unit is now working properly:

- 1.) Unplug the Base Unit power cord.
- 2.) Turn on your cell phone and check the signal meter.
- 3.) Plug the power cord into the Base Unit.
- 4.) Hold your cell phone about 5 feet from the Base Unit and then turn it on. Wait up to minute for the cell phone to register the signal coming from the Base Unit.
- 5.) If the signal meter shows an improvement, your zBoost unit is working properly.

Improving Your Coverage Area

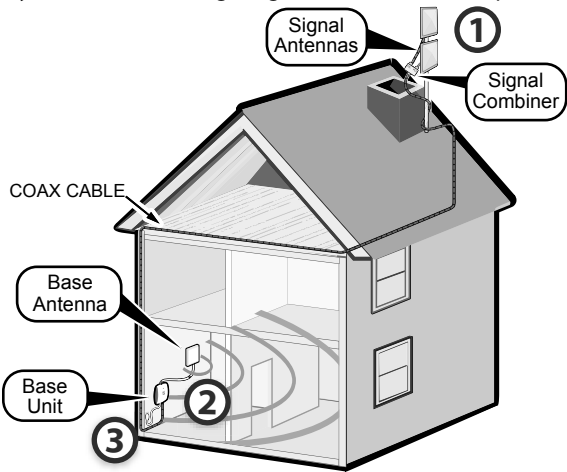
With everything connected and the Base Unit plugged in, you should walk throughout the room and see that you are able to reliably place calls.

Remember, coverage varies based on outdoor signal level, building construction, and general installation care. Coverage in adjoining rooms (next to, above, or below) will be reduced due to the walls or the ceiling/floor.

Should you desire to improve coverage, you may:

- 1.) Move the Base Unit and/or adjust the angle of the Base Unit antenna.
- 2.) Move the Signal Antenna to a higher location in your attic or outside.
- 3.) Purchase a Signal Antenna Upgrade at www.zBoost.com

Note: Using a signal meter or an antenna application on a smart phone is a more accurate way to measure a stronger signal than the bars on a phone.



Upon initial power up, a solid GREEN LED should appear indicating normal conditions. If a RED light appears, adjustments may be needed to optimize performance. If you find the increased signal coverage is acceptable, however, no additional adjustments are needed. See LED Indicator section for more information.

Should you desire to improve coverage, you may:

- Relocate the Signal Antenna in order to capture a better signal – higher is usually better.
- Increase the distance between the Base Unit Antenna and the Signal Antenna.
- Purchase an upgrade antenna available at www.zBoost.com

BASE UNIT LED INDICATORS

At Initial Power Up Only

Solid GREEN	Normal condition at power up.
Slowly Alternating RED and GREEN	zBoost® is working, but at reduced performance and coverage due to “non-ideal” setup. Solution: Increase the distance between Signal Antenna and Base Unit to achieve maximum performance and coverage.
Fast Flashing RED	Indicates insufficient distance between the antenna and the amplifier. The amplifier is operating at significantly reduced coverage Solution: Increase space between base unit and antenna.
Solid RED	System is receiving signals from either the mobile device or the base station transceiver which are too strong for proper operation. Solutions: ① Move away from receiving antenna with your cell phone. ② Move antenna away from other devices..
Fast Alternating RED and GREEN followed by no light	The amplifier is disabled. Solution: Unplug and start over.

After Initial Power Up

Solid GREEN	Normal condition.
Solid RED	System is receiving signals from either the mobile device or the base station transceiver which are too strong for proper operation. Solution: Please unplug your system. Re-orient your Signal Antenna and/or Base Unit to reduce the excessive signal source. Plug your system back in. If still solid red, call customer support 1-800-871-1612.

YX645 Technical Specifications

	PCS Frequency	CEL Frequency
Frequency	1850 - 1990 MHz	824 - 894 MHz
System Gain	75 dB	67 dB
Band Supported	ALL: A,D,B,E,F & C	ALL: A,B, A' & B'
Antenna Signal	13 dBi Panel; F-type female	8 dBi Panel; F-type female
Antenna- Base Unit	9 dBi Panel; TNC male	6 dBi Panel; TNC male
Cable Loss	3000 MHz RG-6, approx. 1 dB/10 ft.	3000 MHz RG-6, approx. 0.6 dB/10 ft.
Both PCS and CEL Frequencies		
Network Format	CDMA, GSM, TDMA, AMPS, GPRS, EDGE, EVDO, HSPA, 3G	
Base Unit RF Connectors	F-type female and TNC female	
Wall Supply Unit	100-240 VAC 50 Hz-60Hz	
Power Consumption	3W standby; 7W max signal - 2.0A Max	
System Certifications	UL, FCC Parts 15 & 24 (PCS), FCC Parts 15 & 22 (CEL), Industry Canada	
Base Unit Size and Weight	5" x 7" x 1.375" - 12 oz.	
Base Unit and Power Supply	Indoor Use Only, 5° to 40° C (40° to 105° F)	
Coverage (open areas)	4-5 signal bars at the roof antenna; 110' radius at 100° width; 3-4 signal bars inside; over 10,000 sq. ft.	
Handles all PCS or CEL protocols and included multiple patented and patent pending technologies to provide low-cost coverage while continually adapting to signal to prevent interference and remain transparent to the wireless network. Provides an indicator if the antennas are positioned improperly, but will NOT suffer damage of interfere with the Carrier Network.		

FCC Information

FCC ID: S04YX545-PCS-CEL

Warning: Changes or modifications to this device not expressly approved by zBoost could void the user’s authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element (antenna) shall be installed such that a minimum separation distance of 20cm (8in) is maintained from all persons.

Industry Canada Regulations

Canada IC: 5544A-YX545PCSCEL

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The term “IC:” before the radio certification number only signifies that Industry Canada technical specifications were met.

RF Exposure:
The manufacturer’s rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.

Please note: This unit has been approved for use in Canada under RSS 131, however, consent for the use of this device to improve cellular or PCS coverage, must be obtained through your cellular or PCS provider, prior to placing the unit in operation. Please refer to the Industry Canada document CPC 2-1-05, Section 6.1 available or viewable at: <http://www.ic.gc.ca/epic/site/smt-gst.nsf/en/sf08942e.html>

Cet appareillage numérique de la classe [B] répond à toutes les exigences de l’interférence canadienne causant des règlements d’équipement. L’opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l’interférence nocive, et (2) ce dispositif doit accepter n’importe quelle interférence reçue, y compris l’interférence qui peut causer l’opération peu désirée.

Le fabricant nominale de la puissance de sortie de ce matériel est simple transporteur. Pour les situations lorsque plusieurs signaux porteurs sont présents, l’évaluation devrait être réduite de 3.5 dB, en particulier lorsque le signal de sortie est ré-émise et peut provoquer des interférences adjacentes à la bande utilisateurs. Ce pouvoir est de la réduction par le biais de la sortie d’alimentation ou la réduction de gain et non par un atténuateur à la sortie du dispositif.

WARRANTY INFORMATION

LIMITED 1 YEAR WARRANTY | [REGISTER AT WWW.ZBOOST.COM](#)

zBoost warrants every zBoost product to be free from defects in material and workmanship under normal use for the warranty period of 1 year.

Who Is Covered?

You must have proof of purchase to receive warranty service. A sales receipt or other documentation showing the product purchased and the purchase date is considered proof of purchase. This limited warranty extends only to the original consumer purchaser or any person receiving the product as a gift from the original consumer purchaser and to no other purchaser or transferee. This warranty does NOT extend to commercial users.

What is Covered?

Warranty coverage begins the day you purchase the product. For one year from the original date, the zBoost Cell Phone Signal Booster will be repaired or replaced with a new, repaired, refurbished or comparable product (whichever is deemed necessary by zBoost) if it becomes defective or inoperative. The exchange will be made without charge to you for parts and labor. You will be responsible for the cost of shipping to the location designated by zBoost. If zBoost cannot reasonably repair or replace the unit then zBoost may, at its sole discretion, refund the price you paid for the product. All products, including replacement products, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires.

What is Excluded?

- Your warranty does NOT cover:
- Labor charges for set up of the unit.
 - Product replacement because of misuse, accident, lightning damage, unauthorized repair or other cause not within the control of zBoost.
 - Incidental or consequential damages resulting from the product. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.
 - Any modifications or other changes to the product, including but not limited to software or hardware modifications in any way other than as expressly authorized by zBoost will void this limited warranty.
 - Product that has been modified or adapted to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.

Make sure you keep...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this Setup Overview and keep both nearby. Also, keep the original box and packing material in case you need to return your product.

Before requesting repair service...

Please review the BASE UNIT LED INDICATORS section listed in this overview - This may save you a call.

To get warranty service...

Warranty service will be provided by zBoost. If you believe you need service for your unit, contact zBoost at 1-800-871-1612 or support@zBoost.com. A representative will go through a diagnostic checklist with you. If it is determined that the product needs to be returned for service or exchanged, you will receive a return merchandise authorization (RMA) number. The representative will give you complete shipping details. Do not return products to zBoost without a Return Authorization Number (RMA).

To get out of warranty service...

To obtain out of warranty service, contact zBoost at 1-800-871-1612 or support@zBoost.com for information on the possibility of any costs for repair or replacement of out-of-warranty products.

Reminder: Record the model and serial number found on the product below:

Model #: _____

Serial #: _____

Purchase Date: _____

CUSTOMER SERVICE



The zBoost YX645 User Guide and additional product information is available at www.zBoost.com



For questions or assistance, contact zBoost customer service at 1-800-871-1612 or email Support@zBoost.com



You can also download the User Guide at www.zBoost.com/customersupport